

Tyler McCarthy

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Objective

Seeking full time software development positions in the San Francisco Bay Area, especially those focusing on web development, Android development, software security, and virtual reality applications in Unity or Unreal Engine.

Skills & Experience

Programming Languages:

Strong: C, C#, Python, Java, BASH
Some exposure: Haskell, Lisp
Learning: OpenGL & GLSL, C++

Operating systems:

- Extensive Linux desktop & server
- Windows 7, 8.1 & 10

Programs & Environments:

- Android Studio, Eclipse, Visual Studio, Unity 5
- SQL server, Redis, AWS, Git, Docker

B.S., Computer Science

Grand Valley State University Dec. 2015

Computer Security :

- Network monitoring (Wireshark, pcap)
- Intrusion detection & Honeypots
- Pentesting suites (Metasploit, Armitage)
- Windows & Linux software firewall
- Practical cryptography
- Some Bluetooth security
- SQL injection prevention

Recent Projects

- Square Wars game - GVSU capstone project in Unity (C#)
- Atomic Games Hackathon - Othello game AI (Python)
- Android 6.0 Udemy course (several apps) (Java)
- Unreal Engine 4.5 for Virtual Reality Udemy course (C++)

Github.com/point01/square-wars
Github.com/point01/atomic-othello
Github.com/point01/android_course
Github.com/point01/unreal_course

Prior Employment

Edmodo - San Mateo, CA (Internship)

May-Aug 2015

- Designed and implemented dockerized scanning tools for text content in many formats
- Designed an improved rate-limiting system using Python & Redis over old PHP implementation
- Fixed security issues in PHP backend, built tools to automatically detect & fix issues
- Light DevOps work in Amazon Web Services

Grand Valley Surplus Store - Grand Rapids, MI

Jun-Sep 2014

- Managed FOG server & tested hardware, renewed computers & electronics for sale
- Directly aided customers at checkout & on floor during sales

Voluntarism & Student Organizations

Computer Security Team - Grand Valley (Leader/Teammate)

2013 - 2014

- Team coordinator, 2013-2014 school year: organized meetings, researched & taught skills
- Competitor: 2014 Michigan Collegiate Cyber Defense Competition

Student Environmental Coalition - Grand Valley (Treasurer)

Sep-Dec 2013

- Balanced budget, wrote and presented funding requests
- Secured 100% of funding for Powershift conference travel (20 student attendees)
- Helped coordinate & execute events including GVSU Zero-Waste football game

Center For Inquiry - Grand Valley (Service Coordinator, Treasurer, Vice President)

2011-2013

- Coordinated with other officers public speech by Dr. Neil deGrasse Tyson (4,000 attendees)
- Coordinated and lead volunteer service projects & events

GVSU Fencing club - GVSU Computing Club - GVSU Backpacking Club - ACM Member
Multimedia artist - Outdoorsman - Electronic Music Junkie - Amateur Game Developer